
Journal Transcriptions

Albert P. Crary

April 2, 1946–May 8, 1946, *and*

December 2, 1946–August 16, 1947

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April 2 Tues D & I left Caracas Pan Am bus 9 pm. Arrived Miami 10 pm on Pan Am. through customs and caught 1 am National Airlines plane for Newark

April 3 Wed Arrived Newark 730 am and took airline bus to NYC. D left for Providence 9 am. Called up Ewing but he was in Chicago - due back tomorrow. Left on 1040 sleeper for Canton tonight.

April 6 Sat At home. Over to Ogdensburg to see Steve this pm

April 7 Sun. Left Canton on 805 sleeper. Saw Bob Foster '31, also on way to NYC

April 8 Mon. Arrived NYC 730 am. Up to Columbia University to see Ewing 130 pm. Wyckoff and Dove on way to Los Angeles by plane this pm. Crane and Morrison in also from Watson Labs. Went back to Red Bank with them in ANUS car to Officer's Club near Watson Lab.

Crane, Morrison and I went up tonight to see Reinagle at office. Met Gifford who has 30' sea rescue boat this project is planning to use. Stayed at Officer's Club tonight

April 9 Tues. At Watson Labs all day. Went through all processes necessary for employment under Civil Service. Warrant Officer Gifford transferred to WLERL-4 today. McCurdy already in and started work. Talked with Reinagle and Gallo re Columbia contract.

Gifford left pm for Washington, Major Crane for Camp Dix and Morrison for NYC. Reinagle and I went down to CO this pm to meet group from Cornell extension at Buffalo - Aeronautical research wanting to get contracts. Stayed at Molly Pitcher Hotel in Red Bank tonight

April 10 Wed Checked out of Molly Pitcher Hotel and caught 730 am train out of Red Bank to NYC. Checked in at Hotel Webster and then up to Ewings at Columbia University. Mr Gallo of Watson Labs in at 10 am and we went over contract questions regarding Watson Lab contract with Columbia until 1 PM. Went over all parts of work with Doc from 2 to 530 pm. John Ewing in from Missouri.

April 11 Thurs. Worked on rough outline of Eglin Field and SOFAR project Am. Up to see Ewing at Columbia PM. Doc and I went over contract with Watson Lab & Columbia tonight. Caught 1205 sleeper to Boston.

April 12 Fri. Arrived Woods Hole about 11. Joe Worzel went over all sound transmission work at WHOI this pm.

April 13 Sat. Talked with Columbus Iselin this Am regarding Watson Lab work and needs. Crane and Gifford up pm and Joe and I went up to lab with them.

April 14 Sun. Down to lab this am with Joe looking for G9A files. Jim Peoples over about noon for awhile. Joe and I went golfing pm. Took 600 pm train to Boston and 1230 sleeper to NYC. Up to Boston with Lt Frank Ryder with Navy and WHOI

April 15 Mon. Contacted Doc Ewing in NYC and rode down to Red Bank with him. Talked over instrumentation of upper atmosphere investigations. Out to Oakhurst this pm. Conference with Col. Cole and Col. Grough re Project 188-5 and regarding microseisms. Doc and I went back to Molly Pitcher Hotel in Red Bank tonight.

April 16 Tues. Rode out to Watson Labs with Ewing. Went over to Evans Labs with Harry Davis Watson Lab navigation man, and saw newly developed ranging apparatus and talked to Lt Rydetor? re Spherics, location of lightning and thunderstorm data collected during past few years. Saw Col. Duffy of Meteorological Division AAF and back to Watson Labs. Doc went on through to NYC. Went over program with Dove and Crane this pm. Back to lab tonight with Crane and Gifford, discussing Project 185-7-1. Back to Myrtle Hotel at 1045 pm.

April 17 Wed. Rode out to Watson Labs with McCurdy. Worked with Major Crane on report regarding underwater work, Eglin Field and deep water. Took this in to Colonel Cole this pm. Acceptance probable. Got room in private house in Red Bank. Moved out of Molly Pitcher Hotel.

April 18 Thurs. Caught bus out to Watson Lab. Col Cole up this am and advised writing new Cost Expenditure for and revising the R. & R. Major Crane left about noon for trip Phila and Woods Hole. Made arrangements to meet him in NYC Monday. Wrote out new R & R and Cost Expenditure ready to take to Col Cole.

April 19, Fri. Talked over work with Dove and we wrote up 2nd EO covering all ocean work. Talked to Ewing on phone this am. Dove and I went down to see Col Cole and then wrote up new EO for deep water work. Saw Hincke? regarding this EO and A for P processed this pm and ready to go out to Wright Field.

April 20 Sat. Caught 710 train to NYC, cashed check at Chase Natl Bank, talked to Ewing on phone. Back to Red Bank about 4 pm.

April 22 Mon. At Watson Labs this am. Got final physical exams. Down to Supply to see Major Morris with Reinagle re getting equipment out that came from WHOI without paper coverage. Got travel order back and authority to use it. Caught 342 pm out of Red Bank and arrived

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in Newark about 430. Reservations to Dayton on Spirit of St. Louis had been cancelled. Called Watson Labs. Got roomette on Spirit about 530. Called Mrs Ewing in NYC. Left Newark on Spirit of St Louis at 620 pm.

April 23 Tues. Arrived Dayton, Ohio about 830 am. Tried to get return ticket for tonight but coach car only open. Took bus out to Wright Field, Bldg 28. Saw Mr Drexler and turned over 2 of the A for P to him. Colonel Maier on leave. Went down to Colonel Winter's office and found Major Crane there. We talked to Colonel Winters regarding the need for planes and about new EO on extended long ranges of the 189-7-1 program which he approved and marked up to 1-P & sent on for higher approval. Went over with Crane & saw Colonel Lindgard in the plane assignment division and talked about planes. Had lunch with him and then went back to talk to Colonel Eaton regarding planes to 189-9-1. Went over to look at C-97, converted B-29 for transport. Back to Bldg 28 & talked with General Rives. Request for planes agreed upon and B-29 will be available near the 1st of June. 189-7-1 required by Rives. A for Ps in Drexler's office not yet signed. - will be sent on to Watson Labs later. Crane had reservations for me on the Spirit of St Louis and we left Dayton at 8 pm.

April 24 Wed. Discussed with Crane possibilities of getting sound through the ground part of the ocean sound channel and about the possibilities of a balloon such as Piccards. Arrived in NYC about 1030. Called Watson Labs and then we took a taxi up to Ewing's office at Columbia. After Ewing 1-2 class we discussed plans for 188-5 and 189-7-1, both Eglin Field and long range channel program. Left Ewing's office about 6. Crane registered at Hotel Lexington and I caught 740 out of Penn Station and arrived at Red Bank at 845 pm.

April 25 Thurs. Up to Watson Labs. Worked over notes of conference with Ewing yesterday. Wrote up both travel blanks and sent them down to Travel Order Section. Talked with Palmer about MQ travel forms. Wrote up letter to Wright Field requesting use of second crash boat. Wrote R&R for Mark 2 hydrophone. Talked to Lt. Hungerford regarding request of this. Stepanoff, new physicist for WLERL in this pm. Crane left for Wright Field tonight.

April 26 Fri. Up to Watson Labs. Went over purchases already applied for with Reinagle. Wyckoff in this am. McCurdy in pm for radio parts. Went back to Oakhurst with McCurdy this PM.

April 27 Sat. Left Red Bank about 730 AM with McCurdy in his car. Drove through NJ at Trenton & down to Philadelphia. Mac left me off at Olney at subway station. Contacted Marion at Bankers Security and went by train with her to Newton, Pa at 100 PM. Stayed with Flaggs.

Apr 28 Sun. Wayne & Marion drove me over to Trenton, NJ & I caught 1030 am train into NYC. Went up to Ewing's about 1215. Joe Worzel there & Hilly Barbour. They left for Woods Hole about 2 PM. I caught 550 train out of Penn Station to Red Bank, NJ.

April 29 Mon. Up to Watson Labs. Checked over at library to have some periodicals obtained. Went over water work with McCurdy regarding what is needed in way of purchases. Went over to Oakhurst with Roke, new engineer, former Lt. Commander in Navy. Talked to Charlie Ireland regarding Eglin Field work.

April 30, Tues. Up to Oakhurst. Went over equipment that would be left there and what we might do when rest of people gone to Whitesands with Wyckoff. Wyckoff and I took car to Watson Labs to conference with Col Duffy of Weather Bureau, Capt Kellogg and Col Gault. Discussed weather problems - on eqpt? and S658s & aerography needs in coming work. Discussed equipment with McCurdy pm and tried to find where demolition cable could be located.

May 1 Wed. Up to Watson Labs. Talked with Stepanoff and Wyckoff regarding work to be done while crew was recording White Sands in New Mexico. Commander Navy arrived about 1130 am and we held a conference - Gault, Compton?, Dove Crane, Wyckoff, Hungerfield, Vaux and myself regarding Navy participation with us in Crossroads. Captain Kellogg of Weather Service over pm and talked with Crane and I regarding 658s, airgraphs, etc. Got travel orders etc to Columbia tomorrow. Wyckoff and about 11 others leaving for White Sands by plane tomorrow morning. Up to lab tonight with Crane.

May 2 Thursday. Left Red Bank on 8 am train, off at Elizabeth and took ferry to NYC. Up to GCT and then up to Docs. Too late for talk with Kellogg but in time for conference with Ewing, Lane of Columbia, Gallo, Bradford, Dove and Crane of Watson Labs. Conference went over contracts with Columbia and WL. Crane and I talked to Dove for short time after dinner. Caught 1130 sleeper to Boston tonight.

May 3 Fri. Arrived Woods Hole 1045 am. Went over to Falmouth with Dorothy. Up to lab pm with Joe W. Talked to Jim Peoples re his amplifier and level recorder. Bump and Kit over tonight. Saw Columbus PM.

~~May 4 Sat~~

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May 4 Sat. Up at WHOI this am. Out with John Ewing taking bottom shots in water. Worked with Joe on his boat this pm. Over to Jim and Rows tonight and to Buzzards Bay bowling.

May 5 Sun. Up to WHOI about 11. Went over deep water equipment with Joe Worzel and Jim Peoples. Jim and I caught 600 pm train to Boston tonight, got 1130 pm Owl to NYC

May 6 Mon. Caught 625 train out of Penn Station to Red Bank. Arrived Red Bank 730 and caught bus out to Watson Labs. Checked at library for caps?military info. Called up Morris of Supply and wrote supply request. Stepanoff in fm Oakhurst. Wrote up weekly report to Watson Labs for 189-7-1. Arranged truck to take fathometer to Nyack, N.Y. for 104' boat and bring back microbarograph from Columbia. Went out to Oakhurst and saw Rooke who is working on flux-meter, and got fathometer NMB-1 ready to send to Nyack. Went over list of parts needed 189-7-1 with Peoples. Peoples signed in at Watson Labs today. Capt Kellogg in from Evans Labs re how they can help- rough draft of letter of request to be written by Col Gaul. Got travel orders to NYC tomorrow and to Nyack.

May 7 Tues. Jim Peoples and I caught 608 train out of Red Bank and arrived Ewing's office about 850 am. Conference at Ewing's office Gallo, Bradley, Crane, Peoples and I from Watson Labs, Lane and Ewing of Columbia and Iselin and McCrory? of WHOI regarding 189-7-1 contract of WHOI with Columbia. Conference later Iselin, Crane, Ewing, Peoples and myself regarding technical procedure and plan for Atlantis, Anton Dohrn and two boats of Watson Lab for summer and next winter. Crane, Peoples and I left about 240 pm for Nyack, NY in Army car. Arrived in Nyack at Peterson's Shipbuilding Co, new 104' boat P778 docked about the same time. Went over all changes and additions to the boat with Gifford and made plans for conversion to our needs. Left Nyack about 6. Jim Peoples and I caught 740 train out of Penn Station and arrived in Red Bank 9 pm.

May 8 Wed. Jim Peoples and I went up to Watson Labs this am

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Dec 2 Mon. Oakhurst. Cold wave hit about midnight - temperature down to 15° - strong wind. Started preparations for Alamogordo trip; getting Rubicon drums and galvanometers ready.

Dec 3 Tues. Oakhurst. Worked on Rubicon drums and galvanometers for Alamogordo trip - Stepanoff on August 9 data - Vivian working up cruise tabulations. Oliva setting up new GR3 for Alamogordo. Got oscillograph operating with 3 T-21 microphones.

Dec 4 Wed. Oakhurst. Set up 20 sec galvos and operated for several hours. In with McCurdy to safety meeting, M. Chantz set up Rubicon in dark box and took several records with 1 sec galv. Made up list for Alamogordo.

Dec 5 Thurs Oakhurst. Worked on relays for setup at Alamogordo. McCurdy & his group on T-21 operations. Woodruff and Chantz getting motors, etc ready for trip. Went over work at Oakhurst with Vivian.

Dec 6 Fri. Oakhurst. Worked on equipment for Alamogordo. Left at noon, caught 135 to New York City. Contacted Carl Gerdes and Ed Schempf at United Geophysical office. Curtin also in NY office. Went out to eat with Carl and Ed and discussed future work. They have job open for me in Alaska and also later possibilities in Turkey. Ed caught plane out about 745. Left on 1215 tonight for Asbury Park.

Dec 7 Sat. Went to Oakhurst 10 - 3. Woody and Phil there getting ready for Alamogordo. Peoples up for awhile pm.

Dec 8 Sun. Worked about 7 - 8 hours at Oakhurst. Chantz and Peoples there - getting realys, etc ready for Alamogordo. Went over all theoretical work on flights, etc with Peoples.

Dec 9 Mon. Oakhurst. Finished getting all equipment ready for Alamogordo. Chantz, Woody and I went to Watson Labs. Got checks and travel orders. All equipment loaded on trucks and taken to Watson late pm. Talked to Colonel Duffy a while about future plans.

Dec 10 Tues. Woody, Chantz and I left Oakhurst in staff car about 9 am. Arrived at Newark airport 10. C-54 in from Middletown about 11, bringing Ball and Oakes from Wright Field. Loaded up all equipment on C-54 and left Newark about 145 pm. Lewis, pilot; Clowry, co-pilot. Arrived Oklahoma City about 945 pm EST. Got rooms at Air Base Hotel. Went into Oklahoma City for dinner tonight.

Dec 11 Wed. Oklahoma City. Waited for weather to lift. Unable to leave in time to reach Alamogordo before dark. At Air Base hotel tonight. Equipment from Johns Hopkins University transferred to MOGUL plane, including warhead of V-2. 4 scientists & crew, including Delgano? . Called Jimmie at Fairview, Okla.

Dec 12 Thurs. Left Oklahoma City in C-54 at 0800 CST. Arrived at Alamogordo about 11 RMT. Met Major Pritchard at air base. C-54 unloaded warhead material first then all MOGUL eqpt which went to North Hanger. Went over to Pritchard's office, met Major Maguire? and talked over prospects of serups. Woody and Phil worked on equipment pm. Went up in L-3 with Sgt Mack looking over country of proposed sites. WAC corporal launched at 4 pm. Worked on equipment tonight. Staying at BOQ.

Dec 13 Fri. Woody and I left Alamogordo Air Base in weapon carrier and scouted out area south of White Sands and Turoro Lake. Got lost on ordnance map we had. Located Tower and K station. Went to Proving Ground. Saw Karsh and Major Grant and got good locations and one of good maps. Left Proving Grounds about 2 and went up west side of sand area to site A3. Arrived there at 4 but over very rough roads. Back to Alamogordo Air Base at 620. Chantz in Alamogordo working on T-21s, BST and Brush equipment.

Dec 14 Sat. Went out Hwy 70 this am toward Proving Grounds. Turned off at White Sands Nat'l Monument and drove to end of 9 mile road in park, about half in white sand area. Found location for #2 site which is about 30 miles north and a little east of launching site. Back to Air Base at noon. Went out north looking for Site 3. Tried to get through Ordnance Gate but needed key. Went back and around by Alamogordo and Tularosa but couldn't get in there. Back to base, got key from Provost Marshal and went out to Ordnance Gate. Found it did not lead in right. Came back to North Hanger and took road out from there, finally landing at bombing area about 35 mi from base. Left all Rubicon equipment there. Back at Base 645

Dec 15 Sun. Got all GR3 recording units and went up to site 3. Set up both Rubicon in tent and GR3 in small building. Got recordings on both. Back through Tularosa and Alamogordo.

Dec 16 Mon. Signal Corps people, Dr Kane and Dr Crenshaw in this am. They are planning to measure time interval between bursts of meteorites at 60, 70, 80 seconds after launching. Went over our plan with them. Packed eqpt for Site #2 in White Sands. Chantz and I stayed setting up apparatus and Woody went back for equipment for Site #1. Left Site 2 about 3 pm and went to site 1. Set up equipment there. Finished about 7. To Alamogordo for dinner.

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Dec 17 Tues. Got Chantz a Jeep to use on Station 3. Went out to #3 made final checks - Chantz stayed there. Woodruff and I went to Station 1 and made final checks there. Woodruff drove me to Station 2 and then went back to 1. V-2 rocket went up at about 1015^{pm}. Got Brush recording - 1 trace & Rubicon at 2. Woodruff got EST & Rubicon at 1 - though had interference with other group. Chantz got GR 3 & Rubicon record at #3. Back to BOQ about 12. Rubicon & EST recordings not yet developed.

Dec 18 Wed. Chantz and I went out to Sta 3 and got all equipment together and back to camp about 1 - went in borrowed weapon carrier. Woody and Jeff Fowler took other weapon carrier and collected all equipment from Sites 1 and 2. Packed all equipment at north hanger and loaded it into truck, which was then put on plane. Got data from V-2 firings from Fritchard's office. Left Alamogordo about 730 pm in C-54 and went to El Paso Biggs Field.

Dec 19 Thurs. Went down to El Paso this morning and then across to Juarez. Back to Biggs Field about 230 pm. C-54 left El Paso 400 pm, landed in Patterson Field, Dayton, Ohio 110am.

Dec 20 Fri. Left Dayton about 9 am & arrived in Olmsted Field near Harrisburg, Pa about noon. Lt Carroll and Clowry drove us down to Pa RR station. Got 150 out of Harrisburg and arrived in Newark 6 pm. Caught train to Asbury Park.

Dec 21 Sat. Chantz went down to Oakhurst and developed 3 Rubicon recordings from White Sands and BST recording at Site # 1. Site #1 recording poor, possibly NG. Looked over recordings obtained at Oakhurst on bombing run of 19 Dec.

Dec 22 Sun. Out to Peoples this evening in Marlboro.

Dec 23 Mon. Oakhurst. Worked on Alamogordo and Flight 13. Had flight # 14 this pm. - 24 bombs starting at 2 pm. Ran GR-3, Brush and Rubicon at lab. Woodruff went out to Farmingdale with van and Rubicon but results NG. No shots apparent on recordings.

Dec 24 Tues. Oakhurst. Closed down about 1130. Worked on Flight# 14 and work from NYU. Started Stepanoff on extension of Aug 8 flight. Into NYC PM and caught 1045 sleeper to NNY.

Dec 28 Sat. Cold NE winds and storms all day. Unable to get roads cleared out. Cancelled reservations for this evening to NYC.

Dec 29 Sun. Caught 805 sleeper to NYC this evening.

Dec 30 Mon. Arrived NYC about 915 am - caught 1040 out of Penn Sta, arrived Asbury Park about 1 pm. Worked on Alamogordo results. Went over work with McCurdy who proposed new type instrument and wants authority to go ahead with it.

Dec 31 Tues. Oakhurst. Flight # 15 this morning at 1040 - 1105. Woody went out to Farmingdale and recorded on Rubicon drum. Recorded also on Rubicon drum T-9- Brush and GR3-T-8. Set up sonobuoy 1000 ft ± west of T-8-0. Times Square tonight.

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Jan 1 Wed Asbury Park. Snowstorm pm

Jan 2 Thurs. Oakhurst. Worked with V on flights 12, 13 and part of 14. Got Alamogordo results together. Conference this pm with Colonel Duffy and showed him my results with flights and with Alamogordo.

Jan 3 Fri. Oakhurst. Worked with V on Flights 14 and 15 and started NYU data of Sept 12. Stepanoff on extension of August 9 results. Conference pm: Dr. Ewing, Spilhaus, Dr Ference of Evans, Duffy. Discussed Evans program and air flight and Alaomgordo results. Made arrangements for cooperation with Evans in coming tests.

Jan 4 Sat. At Oakhurst about 3 hours. Finished getting velocities for Sept 17 flight and started work on data of Oct 4 cruise.

Jan 6 Mon. Oakhurst. Finished velocity data for Oct 4 and Oct 16 from NYU meteorological studies. Stepanoff finished Aug 9 data and started on # 1 of Sept 12. Moved into new building next to T-8-0 today.

Jan 7 Tues. Oakhurst. Vivian worked up ray paths, time and distance for Vel #2 of Sept 12. Started on Aug 8 data to get Stepanoff's figures together for study above 15 kms. Went scouting for location of sono buoy west of Oakhurst Arm about 3000 ft. Chantz and Woodruff on calibration of Alamogordo instruments and fixing up of equipment for field uses.

Jan 8 Wed. Oakhurst. Worked on Aug 8 cruise, making final calculations for sky wave. " on Vel #3, Sept 12 cruise. Woody and I went over to high ridge 2900 ft west of Oakhurst with sonobuoy which worked into GR3.

Jan 9 Thurs. Oakhurst. Worked on sky wave data. Vivian and Stepanoff on Sept 12 ray paths. Flight # 16 at 1200 to 1220 pm. No noticeable results. Used sonobuoy at 160' hill back of labs.

Jan 10 Fri. Oakhurst. Into Watson Labs at 9 to take supervisor's test. Trakowski, Peoples and I went to Camp Evans and discussed results of V2 rocket recordings informally. Flight #17 this PM 1600 to 1620. Worked on sky wave data

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Jan 11 Sat. Oakhurst. Worked on sky wave data of Aug 8. Drew up curves for lower and upper stratosphere. Regung? brought in calculator from Wright Field.

Jan 12 Sun. Oakhurst. Worked on sky waves Aug 8th and 9th. Got out letter to Gutenberg pertaining to those two days.

Jan 13 Mon. Oakhurst. Working on sky wave curves. Made plans for Alamogordo this Thursday

Jan 14 Tues. Oakhurst. Calibrated instruments A-21 to take to Alamogordo. Raining

Jan 15 Wed. Oakhurst. Started writeup of V-2 rocket work. Dr O'Day in from Watson and we went over V-2 rocket program with him. Finished calibration of T-21s on CR 8. Vivian finished sky wave curves. Worked on Dec 31 Woods Hole recordings.

Jan 16 Thurs. Oakhurst. All equipment for Alamogordo packed and loaded on truck pm. Worked with Vivian on sky waves of Aug 8th and 9th.

Jan 17 Fri. Oakhurst. Conference with Cpts Lewis, Clowry and Duff of Olmstead Field and HOGUI at 1230 regarding bombs, future flights, etc. Mathematician from Newman's group started work this noon - for two weeks. - working with Vivian. Woodruff and Chantz went up to Newark with equipment and loaded on P-47. Went up at 2 pm by staff car. P-47 left Newark 333 pm, landed at Patterson for fuel, landed at Tinker Field, Okla City 120 am. Stayed there overnight, Officers Manjak and Layden.

Jan 18 Sat. Left Oklahoma City about noon and went as far as Amarillo. Stayed at Amarillo - at Clinton Hotel

Jan 19 Sun Left Amarillo about 1130 CST - arrived Alamogordo 1230 pm RMST. Unloaded equipment off plane and put in north hanger. Unpacked GR-8s, T-21 galvanometers. 3 T-21s and 2 galvanometers broken. Repairing tonight

Jan 20 Mon Alamogordo. Tested out T-21s at north hanger with GR-8s. Loaded up all equipment for GR-3 and Rubicon drum and went out to A1 tower. Set up house along road about 3/4 mi southeast of the tower. Ran out 3 1000' lines for the at 120° radii. Set up dark room tent and 2 galv L&N broken suspensions. Worked on timing circuits, T-21s and galv at Alamogordo Air Base.

Jan 21 Tues Alamogordo. Tried out more T-21s with GR-8. All OK but one. Set out Site 2 near Hwy 70, C&GS marker 'Dona'. Laid out 1000' cables, set up Rubicon. Went out to end of Doppler line to station G but could not find C&GS marker 'Town'. Went back along line toward blockhouse & set up site #1, cables and Rubicon drum at intersection of G line and O line. Sites now set up 6, 13, 19 mi from blockhouse, all about 2 mi east of N line from boundary? site

Jan 22 Wed Alamogordo. Made rounds of all 3 sites. Set up L&N at Site #3, & surveyed to tower. Took T-21s and GR-8s to Sites 1 and 2 and set them up ready to operate. Took Rubicon recordings at Site 1 and 3 to check galvanometers.

Jan 23 Thurs. Alamogordo. Left air base about 900am. Bombing postponed from 11 am to 3 pm. Went out to Site 3, surveyed to tower. Got GR-3 recordings. Left Chantz at Site 3 and went to Site 2. Woody left Site 2 and went to site 1. Bombing delayed by 15-30 minute intervals from 3 pm to 519 pm. Got good recordings at Site 2. Both other stations lost to triangulation acc't radio communication though Woody had GR-8 operating but without directional instrumnets.

Jan 24 Fri. Alamogordo. Checked with Major Pritchard at base. Left about 830 and picked up all equipment from 3 sites. Surveyed Site #2 and made rough survey of Site #1

Jan 25 Sat. Alamogordo. Sorted out all equipment at north hanger. Left GR3, Rubicons and Sprengnethers. Packed up GR8's and other equipment and loaded in C-47. Carroll and Short in C-47 from Middletown. ready to leave tomorrow. Worked on Site 2 recordings pm. got azimuths and angles of ascent for 2 main explosions. Have high angle of ascent.

Jan 26 Sun. Left Alamogordo about 830 am in C-47, Lt Sherry of Alamogordo pilot. Landed at Scott Field, St Louis for gas & eats, and then to Patterson Field, Dayton, Ohio where we stayed overnight acct bad weather east of Pittsburg.

Jan 27 Mon. Left Patterson Field about 930 am, arrived in Newark near noon. Chantz and Woodruff left by train. I went to Oakhurst with truck and equipment. Arrived about 330 pm. Peoples going to Washington tomorrow to V-2 panel meeting with Trakowski.

Jan 28 Tues. Oakhurst. Worked up diagrams for azimuth and offset distances, also angle of descent from Site 2, Alamogordo. Went over recording, got about 20 recordings on first part but only 2 on down part.

Jan 29 Wed. Oakhurst. Worked on latter part of V-2 recording of Alamogordo. Got 2 recordings besides 2 large ones, but very poor. Worked up possible trajectory of V-2 rocket. Worked up future program for Alamogordo - Chantz & Oliva leaving about 10 February for semi-permanent work there. We are passing up Feb 6 rocket but starting on definite program following that.

Jan 30 Thurs. Plotted up angle of azimuth against angle of descent for V-2 recordings. Set aside this work for bombing runs. Worked on Flight 18 with Vivian. Started Eileen on calculations with Aug 8 and 9 data, reworking calculations done before. Checked picks on Flight 18 - they appear to be sky waves though angle of descent is not regular.

Jan 31 Fri Oakhurst. Worked with Eileen on Aug 8 calculations. Finished up for both direct and reflected possibilities. Went over Flight 19 records. Found that all of these are sky waves.

Feb 1 Sat. Left A.P. for Philly on 940 bus, arrived at Marions apt about 1. Wayne back from work about 5. After dinner we went out to Newtown and stayed overnight.

Feb 2 Sun. Drove up to Sparta NJ with Marion and Wayne. Saw Dorothy, Joe and family. Nelson Steenland & family living there with them. Saw Worzels pm. Ed Douglas in tonight for few minutes. Joe took me over to Dover & caught 958 train, then 1120 out of Penn Station, Newark. Arrived AP about 1230

Feb 3 Mon Oakhurst. Peoples in Washington regarding balloon ascension in June. Made plans for flight 20 which was made this pm 1300 to 1320 in conjunction with instruments in blimp. Route just south of east, no results. Worked on sky waves from Flights 18-19.

Feb 4-5-6, Tues, Wed, Thurs. Oakhurst. Checked over all sky wave picks on Flights 18 - 19. Went over Loran data and plotted up to get accurate plane speed. Plotted T - X curve using these figures. Worked up Oakhurst corrections for elevations and replotted all values for velocity - Flights 18 - 19. Received Gutenberg letter in which he had worked out Aug 8, 9 data. Went over this method and worked over thae data again. Unique solution not obtainable. Went over possible experiments in 'Helios' balloon June with Peoples.

Feb 7 Fri Oakhurst. Worked on 23, 24 Jan T-X curves. V files 23, 24 Jan forms, started on NYU data. Eileen worked on least squares-Va, then on Gutenberg's method applied to Aug 9 data.

Feb 8 Sat Oakhurst. Worked on V-2 rocket information 23 Jan. Used meteorological information for 2 explosions. Tried to get \bar{V} at height of explosions but seems too low.

Feb 9 Sun Asbury Park - worked on calculations of flights, setup? and calculations for rockets.

Feb 10 Mon Oakhurst. Worked over Alamogordo Radar Hueco stations for 23 Jan 1947 records and made plot of V-2 rocket D - H using all radar data. Went over all equipment to go to Alamogordo. Made plans for departure Thurs. Set up 8 sec galv in T-9. Vivian checked velocity from caps with temperatures and continued on Oct 22-23, Flights 12-13, Cruises, NYU data. Eileen in pm - worked on formulas of seismic refraction using straight line for line - Aug 8 - 9. Finished this and went back to least square solutions of Jan 23 - 24 data.

Feb 11 Tues Oakhurst. Flight 21 scheduled for 8 tonight postponed until tomorrow. Worked on Oct 22 data with sky waves to Highland Lights. Went over all records. Have 2? consecutive shots to H.L. Oliva left by train tonight for Alamogordo.

Feb 12 Wed Oakhurst. Vivian & Eileen worked on temperatures and winds Oct 22 & 23 and worked up ray paths for sky waves to Highland Lights. All equipment for Alamogordo assembled and loaded on trucks for Watson Labs this pm. Flight 21 at midnight tonight. McCurdy, Chantz, Woodruff, Ball, Hom?, Rigny present. Dropped 20 bombs 1200 to 1237. No signals received, either sky or direct waves.

Feb 13 Thurs. Got special instruments for 1 cycle from McCurdy this AM. Drove up to Newark in staff car - Chantz & myself. Loaded B-25 this pm but could not get all equipment on - left 5 reels and box of equipment ? . Left Newark about 330, stopped in Middletown, Pa - Olmsted Field for 1 1/2 hrs to eat and gas plane, then left and landed at Godman Field outside Fort Knox, Louisville, Ky. Stayed at Officers Club tonight.

Feb 14 Fri Left Louisville about 930 am. Stopped at Tinker Field, Ok City for eats and refuel then to Alamogordo. Arrived Alamogordo 430 pm - contacted Watson Lab and got truck. Unloaded all equipment from B-25 & took part of it to North hanger. B-25 crew: Lt Mosher, Lt Alberts, Sgt ? . Oliva arrived Alamo. by train this am

Feb 15 Sat. Moved eqpt from north hanger across runway to stowage building. Checked T-21s on GR 8, Checked galvanometers, etc

Feb 16 Sun Alamogordo. Out to Tower and Dona sites & surveyed in instrument locations - 5 to be station(ed) in shape. Ran out field wire at Dona station.

Feb 17 Mon Alamogordo. Went out to Tower site and set up Springnether and GR3 equipment. Rubicon 500 ft from GR3. Took trial recordings on both equipments

Feb 18 Tues Alamogordo. Went out to Dona Site this morning. Set up GR8 then Phil took truck and went over to GR3 Tower site. WAC corporal shot off about 215 but with little slipstream. Recorded at Dona but Phil at Tower site never saw rocket. Waited at Dona until 6 pm. Phil had

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not come so got ride into Army base. Phil in later. Very windy for recording.

Feb 19 Wed. Alamogordo. Got radios from Watrus of Signal Corps and got trip tickets for tomorrow. Ran test records on Rubicon at both sites and checked everything ready for tomorrow.

Feb 20 Thurs. Alamogordo. Out early to station at Tower. Left Phil off there and went over to Dona Site. Rocket delayed from 10 to 1119. Both stations got good recordings except 1 9T-NS on both WG. Worked on GR8 records tonight.

Feb 21 Fri. Alamogordo. Went to White Sands Proving Grounds with Fritchard, Magnir?, Sol & Phil this morning for V-2 critiques, 0930 to 1100. Canister from rocket unpacked? about 40 miles up and finally found this pm between El Paso and Alamogordo. No transportation back to NJ yet. Worked on GR-3 records today

Feb 22 Sat. Alamogordo. Worked on data all day today. Correlated between the Tower and Dona sites for several sources. Worked total travel times for ascents both Dona and Tower and got average velocities up to about 65 kms, velocity increases from about 40 kms up to 60. Average velocity at 65 kms is about 320 meters per sec.

Feb 23 Sun. Worked on detailing record from GR3. Added more and made T-D move up to 75 kms, giving velocity of about 420 m/sec at top. Phil and Sal went out and picked up equipment - T-791s and GR8 and checked all pickups.

Feb 24 Mon. Alamogordo. Waited for air transportation today but none available and may not be any until Thurs at latest. Worked on V-2 recordings, frequency and characteristic analysis - T-3. Sal and Phil out to Site at Dona and recorded WAC Corporal at 1400. Got some waves in about 7 minutes after it had left ground.

Feb 25 Tues. Alamogordo. Went out to Tower Site, surveyed in #6, took down shelter. To Dona Site, set up GR3 in shelter, surveyed in #6, went to launching site, about 2-3 miles NW launching area. Phil went in to WSPR and got permission, Sal and I surveyed 1 site for use with WAC Corporal.

Feb 26 Wed. Alamogordo. Worked on GR8 records of 20 Feb V-2 rocket. This am Phil and Sal set up Sounding? site for tomorrow's W.A.C. I left 7 pm - C-47 Hoffman, Missinger: Pilot, co-pilot. arrived in Newark 9am.

Feb 27 Thurs. Arrived Newark 9 am. Lewis, Duff, Mosher a request? in from Middletown - on way to WL to conference and I rode in with them. Conference re future missions. Conference PM Trakowski, Peoples, Rying & myself regarding future operations

Feb 28 Fri. Oakhurst. Ewing in from NYC. Went over Alamogordo results with Ewing, Peoples and Trakowski. Out to Peoples tonight

March 1 Saturday. Asbury Park

March 2 Sunday Oakhurst. worked on calculations for wind translations.

March 3 Monday. Oakhurst. Postponed Alamogordo trip until tomorrow, getting together equipment for Alamogordo. Thompson going also to get information on bombing runs? there. Worked on calculations from V-2

March 4 Tuesday. Thompson and I left staff car about 930, arrived at Newark 1040. Loaded up B-25 with equipment and left about 1230. Stopped at Middletown and picked up radio. Stopped at Scott Field & Tinker Field for gas. Arrived at Alamogordo 2 am. Crew B-25: Hoffman, DeTurk, Hancock

March 6 Thursday. Alamogordo. Snowing - rocket flight called off until tomorrow. Chantz out to Tower Site and brought in batteries. Sal and I checked low frequency equipment and went out to Tularosa site with it this pm. Ready to use on 1 sec galv on Rubicon drum

March 5 Wednesday. Alamogordo. Chantz, Thompson and myself out to Tularosa site and surveyed out X setup and ran out wires. Back about 2. Oliva working on check of T21s. Worked on radio and T21s until tonight

March 7 Friday. Alamogordo. At 8 am Fritchard got word rocket would go off between 1034 and 1200. Phil and Sal went out to Dona and Launching Sites with weapon carrier. Hoffman, DeTurk and Thompson out with them in staff car. I took Jeep and went out to Tularosa site. Rocket off at 1123. Got recording on GR8 but not time for Rubicon record. Phil and Sal got OK records from their sites. Thompson reported on bombing sites for runs and met and talked with Ordnance Officer. Left Alamogordo 845 pm, B-25 with Hoffman, DeTurck. Motor trouble on way and reached? Tinker Field 1200 with cylinder broken.

March 8 Sat. Hoffman wired Alamogordo and caught Manjak & Schneider (P4)? before leaving for Florida. They changed their route and landed at Tinker Field, O.C. 535. Trouble with their oil gauge and the trouble not repaired until 10 am. Left Tinker Field 10 and landed at Patterson. Off from Patterson to Olmsted, Olmsted at 9pm. I stayed there overnight.

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March 9 Sun. Left Olmsted 0934 am - C47, Manjak and Schneider and landed at Newark 1130
Thompson and I took train to Asbury Park from Pa station. In Asbury Park 3 pm

March 10 Mon Oakhurst. Vivian and I worked on Flight 25, Parts 1 and 2. Started Eileen
on V-2 rocket recordings.

March 11 Tues Oakhurst. Vivian and I worked on Flights 25, 24. Flight 26 off today, Part
1 at 9, part 2 at 2 pm. Good results! Eileen on V2 rocket March 7, Dona Site.

March 12 Wed Oakhurst. Vivian and I worked on records - Flight 26, and started Flight 23.
Eileen worked on Dona site, V-2. Thompson and I went over Alamogordo plans.

March 13 Thurs Oakhurst. Worked with Vivian some on Flight 23 and 22. Worked on Tularosa
site of V2 - 7 March. Eileen worked on Launching Site, V-2. Flight 27 today - at 12 noon
and at 4 pm. Probably last of flights.

March 14 Fri Oakhurst. Vivian worked on identification of returns, last 4-5 cruises. gave
good sky waves. Trakowski, Peoples and myself wrote up report for General Reves on overall
program to be hand carried by Thompson to Washington. Eileen worked on V-2 records, #21

March 15 Sat Oakhurst. Worked up survey of Launching Area and Tularosa sites & plotted all
sites on air map. Worked on V2 rocket March 7 records.

March 16 Sun Oakhurst. Worked on formula for sound correction until 2 pm - went over to
McCurdys tonight.

March 17 Mon Oakhurst. Vivian plotted up all last sky waves. Worked on eqpt list for Alamo-
gordo. Worked on formulas for wind correction.

March 18 Tues Oakhurst. Worked with V. Checked through all March 13 records. Worked on
Woods Hole recordings pm. Eileen working on V-2 rockets.

March 19 Wed Oakhurst. Reviewed Flight 24A trying to get some azimuths from Oakhurst but
records very poor. Reviewed records of Jan 23rd and started on stratosphere calculations.
Eileen working on corrections Jan 20 V2 rocket from meteorological data. Baten? in from
Florida Field Station, ready to go to Alamogordo next Tuesday.

March 20 Thursday, Oakhurst. Went over final calculations for stratosphere data using
seismic methods, of Jan 23 data with Vivian. Got $V=325$ at 3 kms. Studied azimuths on that
data and got $w = 10$ m/sec coming from south on June 23rd. Worked with Eileen on rocket
Jan 20th correcting for met data and plotting final H against X in kms from surface for
up data.

March 21 Friday Oakhurst. Worked on Alamogordo plans - Lewis & Clowry over this pm and we
went over all future plans including bombing for Alamogordo. Worked on rocket data with
Eileen and on flight data with V, Stepanoff on ray paths of Dec 13

March 22 Saturday Oakhurst. Went over all V2 rocket data. Studied azimuth - elevation
graphs & studied WAC Corporal of 3 March. Caught 534 train from Asbury Park - 1045
sleeper out of NYC

March 23 Sunday. At home. Arrived Canton about 9. Left on sleeper tonight about 8 pm

March 24 Monday. Arrived NYC about 7. At 0930 went up to Math Department at NYU - Washington
Square. Met Mr Bennett of WL. Found that Dr. Courant would not be in until late and decided
not to wait but caught 1040 train to Asbury Park. Went over shipment ready for Alamogordo
and over work for Vivian and Eileen. Packing tonight.

March 25 Tuesday Truck at Oakhurst at 9 with scales - all equipment weighed - about 3500#
total including TORRID. Edmonton, Reynolds, Thompson, Porter, Godbie? and I left about 10
and went through to Mitchell Field in staff car. B-17, Carroll, pilot -- co-pilot. Left
Mitchell Field about 3 pm. High level winds - went southern route - stayed at Maxwell Field
Alabama tonight. Thompson stayed behind waiting for B-45

March 26 Wednesday. Left Maxwell Field, Ala. about 9 and landed in Alamogordo 3 pm

March 27 Thursday Alamogordo. Phil, Reynolds and I went out to Tower site, took in all wires,
Pulled down tent and Rubicon equipment and took it over to new site west of Lake Lucero.
Strung out wire, surveyed in site & set up Rubicon tent. Sal, Edmondson, Godbie?, Porter
weighing in equipment in Alamogordo air base.

March 28 Friday. Alamogordo. Went out with Godlers, Porter to White Sands west of air base.
Located site and surveyed it, put up shelter and set up GR3. Phil and Reynolds went up to
Tularosa site, Sal and Edmondson worked on GR8 and low frequency equipment. Thompson in
with B-45 from Newark.

March 29 Sat Alamogordo

March 30 Sun Alamogordo. Phil and I went out to Dona site and picked up some equipment and
then out to Lucero site. Set up Rubicon and took a record. Tried to get through to Tularosa
site west of White Sands but couldn't find road.

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March 31 Monday. Alamogordo. Chantz, Bill Godbee and Ace went out to E. White Sands and Tularosa sites to make final setups. Sal, Edmondson, Peoples and I went out to Dona site this pm and moved tent and Rubicon to #3 position and set up low frequency apparatus

April 1 Tues V2 Rocket #22 went off at 1310 this pm. Chantz and Don at Tularosa, Godbee and Peoples at East White Sands, Sal and Edmondson at Dona, Porter and I at Lucero. All 4 stations got good recordings though low frequency instrument at Dona did not work out.

April 2 Wed. Peoples, Major Magnur?, Thompson and myself went over to Lt Col. McKenson's office this am regarding bombing punas. There are many difficulties with the bombing here, mostly that so many new groups have moved in and are setting up on the northern? range. Thompson and I went over to see Major Mitchell this pm regarding same matter. Wrote memo regarding proposed work to take to CO tomorrow. Peoples left on B-17 today. Don and Bill G went to Dona and Launching Area sites am and got all loose wires. Don and Bill E went to East White Sands and Tularosa pm and got inventory and brought back Rubicon and tent from Tularosa. Worked on East White Sands record. V2 made 85 peaks - down course. Porter worked on calculations pm. Sal and Edmondson took complete inventory and this pm worked on low frequency equipment.

April 3 Thurs. Oliva and Edmondson on low frequency equipment. All T-21s changed over to Stds. Edmondson and Bill G went out to Lucero and Dona, got inventory and brought back tent from Lucero.

April 4 Fri. Reynolds and I went out to Osurso? Range and located PB1 bombing range. Set up wires and did surveying. Chantz and Porter on computations April 1

April 5 Sat Alamogordo.

April 6 Sun. Checked clocks. Cleaned out hanger and emptied trash out at East White Sands

April 7 Mon Talked to Pritchard re 3rd car for tomorrow. Gave him memo of progress report for MOGUL project to date, talked to Lt Dyer of Signal Corps regarding for tomorrow firing. Chantz and Bill went out to Tularosa and got that site ready. All equipment checked for tomorrow. Edmondson and Reynolds ran drum recording of McCurdy low frequency equipment at base. Porter and I worked on amplitudes and frequencies of all recordings April 1 firing and started calculations. Olive worked on calibration of GR8 recorder attenuation. Got 3rd vehicle and all trip tickets for tomorrow.

April 8 Tues. Ace and I went out 7 am to Osarco site. Arrived 9 and set up radio and T-21s. Rocket due at 11, delayed until 1710. Very windy then, all settings at 8. Ran 3 rolls but nothing came in. Chantz at Tularosa alone - Godbee and Reynolds at East White Sands - Oliva and Edmondson at Dona - all sites windy but 3 closest ones got some signals.

April 9 Wed. Worked on yesterday's records. Made picks on Dona, East White Sands and Tularosa. Found nothing on Oscuro site recordings. Don and Bill G went out to East White Sands site and took recordings with pistonphone to get GR3 attenuation calibration. Sal Olive left this pm for San Diego. Wrote letters to Vivian and Jim P tonight.

April 10 Thurs. Ace and Phil worked on rocket recordings. - azimuths vs elevation angles. Don and I went out to Tularosa Range and checked bombing sites - bombing range just north of Range Camp and another site between that and our Tularosa site. Triangulated in with Tularosa Peak, etc. Thompson left in 45 for East. Godbee and Edmondson went with him.

April 11 Fri. Don and I went out past Tularosa Site looking for bombing sites. Went back to Air to Ground Range and to air strip. Chantz and Porter working on calculations V2 23 and T-21 calibrations.

April 12 Sat. Alamogordo Air Base

April 13 Sun. Worked on formula for triangulation without using compass - Alamogordo Air Bas

April 14 Mon. Porter, Chantz and I worked on GR3 and GR8 calibration curves for frequency and attenuation settings. Don worked around equipment - Don, Ace and Bill got apartments at air base. Wrote letters to Vivian and Eileen tonight.

April 15 Tues Alamogordo. B-29 arrived today - Lt Ball, McCurdy, Woodruff and MOGUL personnel - 41493: Lewis, Wolk, Burnhoff, Adams, Duff. Worked some on instrument calibrations. Lewis, Ball and I checked with Major Pritchard, then to Major Mitchell's office regarding bombing sites. Mitchell said CO had turned down bombing from air, but we could have surface charges along Tularosa road. Went up in AT-6, light plane with Capt Runcraft and looked over area west of Tularosa as far as the mountains, where bombing sites are to be located.

April 16 Wed. Alamogordo. Chantz and Reynolds out to East White Sands and Tularosa sites to check GR3 equipment for tomorrow. Porter and McCurdy working on low frequency equipment for V2 tomorrow. Woodruff, Ball, Work and I went out to Dona site then to Launching Area site. Strung out wires and left equipment for tomorrow's firing. McCurdy working tonight on low freq. Oliva in from San Diego this pm

April 17 Thurs. V2 firing #24 scheduled for 11 am. Chantz - Porter at Tularosa Range; Reynolds - Woodruff at East White Sands, Woodruff with low frequency equipment for 1 trace GR3; Oliva - Kabassa?, radio operator on B-29 at Dona Site, Bill Edmonston arrived by car from Florida about 11 and went out to Dona -- Captain Lewis and myself at Launching Area site. V-2 postponed from 11 to 1610. 9 explosives supposed to go off, SCEL, only 1 worked. Tularosa site - had bad instruments - had 3 working but in line; East White Sands - one short roll, then paper jammed; Dona Site OK; Launching Area site - OK for first 2 rolls, paper jammed on third roll. McCurdy set up low frequency in hanger, north side, and on Rubicon drum but recordings questionable - as SCEL radio transmitter interfered.

April 18 Fri. B-29 took off for Middletown and Newark about 730 from Alamogordo with all personnel that came down with it. Wrote Peoples a letter regarding split-up of equipment so that bombing runs could be continued on East Coast. Plans are to have Edmonston, Reynolds here with 2 sets and take Oliva, Chantz w 2 sites for the East. Set up equipments - Sprengnether & L&N galvanometers for Helgoland experiment & run equipment 1030 to 3 Pm. Checked over all recordings. Oliva and Reynolds out to Dona and brought in all equipment except wire.

April 19 Sat. Into El Paso with Bill E this am. Got reservations to Houston next weekend.

April 20 Sun. Worked on plans for bombing runs and V2 monitoring.

April 21 Mon. Alamogordo Air Base. Bill Edmonston and I went out to Tularosa Range and checked 2 bombing targets, and located third bombing site 7-8 miles west of A1, near alkali flats. Chantz and Porter worked on calculations V2 -#24. Sal worked on equipment. Don off today.

April 22 Tues. Alamogordo. Reynolds - Oliva out to East White Sands. Brought GR3 there in for overhaul. Worked up calibration of GR 8. Got curves for settings of 8 and for changes in attenuation. Talked to St. James, Ordnance Supply, re 500# bombs. Wire from Peoples - Godbee ready to come back - plane ready to come down this week. Sent return wire to hold plane off until after 1 May.

April 23 Wed. Alamogordo. Bill E. and I left Air Base at 0930 and drove to Roswell. Scouted out area between Roswell and Donali? but all irrigated farm lands. Finally back with finding suitable site, 129 miles from Air Base to Roswell. Chantz went Tularosa range GR3 back, Oliva and Reynolds checking GR3 in base, Datn? on calculations April 1 rocket

April 24 Thurs. Phil and Ace working on V-2 recordings April 1 and 8 getting and amplitudes. Sal and Don on GR3, Bill E. on clock checks. Saw Pritchard about Roswell trips, bombing. Saw Post Engineers and Major Mitchell.

April 25 Fri. Sal and I went to Motor Pool and got our driving licenses. Worked up sunshots for Tower and Dona sites, OK within 10 minutes. Bill E and Phil got timbers from scrap pile and went out on Tularosa Bombing Range to build shelters. Sal and Don working on GR3. Left Air Base 130 and left Alamogordo 3 pm. Got room in El Paso at Hotel McCoy.

April 26 Sat. Left El Paso on Continental Air Lines about 0930, went by way of Hobbs, Midland, Odessa, San Angelo to San Antonio. Waited there about 2 hrs and caught Eastern Air Lines out to Houston. Got in about 0630, took bus to Houston and taxi to see Donnie.

April 27 Sun. Houston with Donnie and family

April 28 Mon. Down to Sohio Geophysical office with Donnie and Roy Bennett. Went up to Abbott and Stansell about a car. Caught bus out to airfield 1020 and caught Eastern Air Lines to San Antonio, and Continental Air Lines to El Paso. Arrived El Paso 730 and caught train to Alamogordo, then bus to Air Base. Chantz, Oliva and Bill E. checked over L&Ns, got driving licenses and worked on calibration curves.

April 29 Tues. Alamogordo Air Base. Delayed trip to Silver City to talk over Signal Corps Communication with Peoples, Ball this PM. Went out with Don to East White Sands to set up GR3 and get it working. Lt Thompson in pm. Lt Stevens in on vacation trip. Sal and Bill E got low frequency equipment together and ran test with it at hanger. Possibility rocket will not be fired until Monday acct weather

April 30 Wed. Alamogordo. Phil and Don out to East White Sands and Tularosa sites to get equipment ready for test tomorrow. Set up Rubicon at Tularosa. Sal and Bill E. went to Dona and Launching Area sites to set up equipment. All mikes got out ready for firing.

May 1 Thurs. Out at 2 am. Put up equipment for low frequency run at the north hanger. Out to stations in field - Thompson with Phil at Tularosa - Don and Ace to East White Sands, Sal and Bill E. to Dona and I went to Launching Area site. Rocket misfired at 050009 and all equipment of Signal Corps 'explosions' lost. Picked up equipment from Dona, Launching Area and East White Sands this pm. C-47 in this pm: Dubell, Mosher and Duff. Duff brought in 2 100# bombs with some TNT charges. Bill Godbee in from R.B.

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May 2 Friday. Alamogordo. Assembled apparatus to go back to Watson Labs. Phil and Bill Godbee out to Tularosa and picked up all GR3 equipment. Duff, Mosher, Dubell and I went out to Tularosa Bombing Site #2 and shot off 2 100# bombs, using the TNT blocks alongside. All went off OK. Duff got box caps for use. Will cancel 500# bomb order and use just TNT blocks if possible. All equipment loaded on plane this pm.

May 3-4 Sat, Sun. Left Alamogordo about 9 am, Chantz, Porter and myself, 2 Signal Corps men along. Stopped at El Paso and went over to Juarez for pm. Left El Paso about 8 pm. Landed in Scott Field about 4 and found weather bad in East. Stayed at BOQ until 10. Left about 11 and arrived in Middletown, Olmsted Field, about 6. Weather bad in Newark. Stayed in Olmsted Field BOQ

May 5 Mon. Left Olmsted Field at 7 am. In Newark about 8. Trucks in about 11. Loaded equipment and sent to Oakhurst. Arrived Oakhurst about 230. Chantz left for Frenchtown fm Newark

May 6 Tues. Oakhurst. Worked with Vivian and Eileen on their calculations. Eileen working on several? Feb 20 rocket and Vivian on last flights from Oakhurst.

May 7 Wed Oakhurst. Conference am - Dr Delassos? and Leonard from UCLA. Went over T-21 calibration they had - also the results from Alamogordo. Conference pm with Mr--- from AMC Wright Field. Flight scheduled for tomorrow, balloons with instruments going up at Bethlehem - B-17 following balloons with recording equipment and B-29 dropping bombs eastward from Atlantic City.

May 8 Thurs. Oakhurst. Scheduled balloon flight this morning at 730. Mears and men from NYU at Bethlehem with balloons. Trouble with winds and instruments did not go up. Peoples, Moulton over to Middletown with recording equipment on B-17 following balloons. Had no trouble following them. B-29 started dropping bombs near Atlantic City about 8. Trouble with oil leak in a motor and B-29 had to jettison the bombs and return. Recorded at Oakhurst with Brush and GR3. Working today with Eileen on Feb 20 rocket - final ave velocity data

May 9 Fri Oakhurst. Worked on calculations - bombing runs and V2 tests Feb 20. Took sleeper out of NYC for Canton tonight.

May 10 Sat. Canton. Steve and Esther up from Syracuse for weekend.

May 11 Sun. At home. Took sleeper out of Canton for NYC

May 12 Mon. Arrived NYC and caught 0940 out to Asbury Park - then to Oakhurst. Saw Mr Emmons of NYU this pm regarding future flights both here and in Alamogordo.

May 13 Tues. Chantz and I went down to Cape May today with staff car and driver. Located suitable site for bomb recordings on road between Cape May Court House and Goshen. Surveyed out 5 pickup locations and took solar observations. Back in AP about 0800 pm

May 14 Wed - Finished checking up with Chantz and Oliva in regard to bombing runs on east coast. Run scheduled for 9 and 12 on Friday. Packed up all equipment from computing office to go to Alamogordo. Checked transit and rod to go to Alamogordo. Jappett?, new computer, in today. Started him out on work Stepanoff was doing.

May 15 Thurs Oakes, Stevens?, Oliva and myself to Fort Dix this am early. Loaded up C-54 when it arrived, with 229 boxes of TNT, about 12,000#. Carroll - pilot and Hoffman- copilot. Mears, Vivian and Eileen arrived later and we took off Fort Dix about 1130, EDST. Arrived in Fort Worth about 9 EDST. Off again to Big Springs, Texas, where forced to stop account of weather conditions. Stayed overnight at Hotel Supples.

May 16 Fri C-54 arrived at Alamogordo from Big Spring about 930 MST. All TNT unloaded and put in dump. Vivian and Eileen got rooms at girls dorm, Mears and I at BOQ 25. Went over future program with Edmondson, Reynolds and Godbee. Vivian and Eileen in office this pm. Have office in Watson Lab Bldg. Checked out ready to go to Silver City Monday. Got car ready and gas for car. Checked transit and made from field wire chain for 125 meters. Mears and Thompson down to critique at White Sands and to see Capt Smith of Weather Service.

May 17 Sta. Alamogordo. Vivian, Eileen and I worked on May 15 rocket data. Plotted up azimuth angle against elevation angle for Dona and White Sands stations. Plotted azimuth against time for Dona site.

May 18 Sun. Alamogordo. Worked on Dona record, May 15 rocket. Checked through picks - plotted elevation angle against time, calculated elevation and distance from bombing site using straight line plane between launching site and point of impact.

May 19 Mon Reynolds and I left about 0745 in weapon carrier for Silver City. Arrived at Giles National Forest Station about 1230. Got permission for site there and went along valley 16 miles, then back 5 and located site. Surveyed location, dug holes and strung wire. Back to ranger station and located ourselves on range map. Left Bayard about 630 pm. Back at Alamogordo about 1045 pm. Edmondson and Godbee out to record WAC Corporal at Dona site

but it was postponed until Thursday.

May 20 Tues. Edmondson and I left about 0845 in weapon carrier for Roswell. Arrived at Hagerman about 12. Went across Pecos R and found site. Surveyed in locations, dug holes and strung wires. Went over to Roswell Army Air Field, filled up with gas. Checked for room for Bill for Wed and Thurs. Back to Alamogordo about 730 pm. Godbee and Reynolds loaded up one weapon carrier, ready to leave tomorrow. Vivian working on weather data to send back to Watson. Eileen working on March 7 azimuth - elevation plots and checking picks.

May 21 Wed. Reynolds and Godbee left about 800 in loaded weapon carrier. Stopped at gate by SC Lt and had to unload on motor pool weapon carrier acc't bad tires and heavy load on other one. Left about noon for Silver City. Bill Edmondson picked up GR8 and left for Roswell in weapon carrier SC about noon. Got all equipment together for shooting tomorrow. Worked with V and E this pm. Eileen finished checking original data 7 March and started checking April 1 azimuths and elevation angles. V finished azimuths direct waves and started extension of weather data to 288, 18 kms fm sky wave data.

May 22 Thurs. Thompson and I out at 0730 to Ordnance dump. Sgt Rand met us there and let us in area. Picked up 17 boxes of TNT. Shot 1000 at Site 1, 1100 at Site 3, 1200 at Site 3 and 1300 at Site 1 again. Thompson left for El Paso to meet his family, in from Corpus Christi. Worked a little in office PM. Called up Silver City and Roswell tonight, changed schedule of tomorrow from 1100 last one to 1115. Checked AAF clocks over telephone.

May 23 Fri. Went out at 0530 and got Sgt Rand. We went out to ammunition dump, picked up 16 boxes of TNT. Sgt Rand to field with me. Shot 0800 Site 1, 0900 Site 2, 1000 Site 3 and 1115 Site 1. Worked on theoretical calculations pm. Bill E in from Roswell about 5 and Reynolds & Godbee in about 800

May 24 Sat. Went over with Godbee and unloaded his truck, hung his recordings to dry. Went over GR8 records too but didn't see any signals there. GR3 from Silver City has some good sky waves.

May 25 Sun. Tried to get into El Paso to catch train to Houston but Alamogordo train too late to make connections. Back to Alamogordo Air Base.

May 26 Mon. Worked on Tests 1 and 2 records today. No signals from Roswell - some thunder on 2 shots. 5 sky waves from Silver City. Vivian worked on records, Eileen on thunder recordings. Godbee worked am, Bill and Don off today.

May 27 Tues. Worked with V on tests 1 and 2, E back on rocket of April 1. Bill Godbee and Don out to Dona and set up GR3 for Thursday firing.

May 28 Wed. B-17 in from Watson with Mears, Hackman, NYU and Alden. They plan to fly test balloon tomorrow. Other gang with recording equipment, due to leave Watson Sat. Got everything ready for HERMES rocket tomorrow, Dona & White Sands. Finished theoretical calculations of T-X solution of sky waves.

May 29 Thurs. Mears and Hackman got balloon ascension off about 1 PM today with B-17 plane to follow it. Don and Godbee out to Dona, Bill and I to East White Sands to record HERMES. Set for 1100 am, postponed repeatedly, finally fired at 0730 PM. Rocket off course, landed near Juarez, Mexico.

May 30 Fri. Memorial Day. Got 330 bus out of Alamogordo, 1030 train out of El Paso to Houston.

May 31 Sat. Arrived Houston 715, went up to bank 900, then to Abbott - Stansell and picked up car - '42 Chrysler. Went up to Sohio and talked to Donnie and Roy Bennett for an hour. Left Houston about 1145, stayed overnight past Post, Texas.

June 1 Sun. Left 0400, arrived in Alamogordo about 0930 - 800 miles to base from Houston. C-47 with Moore, Schneider and others from NYU. Also Ireland, Minton, Olsen. NYU men worked on balloons today in north hanger.

June 2 Mon. Changed shooting plans to coordinate with balloon flights. Balloon all ready to go. Receiver in plane and receiver on ground. Edmondson with GR8 to Roswell pm, Godbee and Reynolds with GR3 to Silver City. Vivian working on amplitudes of flights - Eileen on April 7 rocket.

Jun 3 Tues. Up at 0230 am ready to fly balloon but abandoned due to cloudy skies. I went out to Tularosa Range and fired charges from 6 on to 12, missed 530 shot - trouble getting ordnance man.

Jun 4 Wed. Out to Tularosa Range and fired charges between 00 and 06 this am. No balloon flights again on account of clouds. Flew regular sono buoy up in cluster of balloons and had good luck on receiver on ground but poor on plane. Out with Thompson pm. Shot charges from 1800 to 2400.

June 5 Thurs. Up at 4 to shoot 2 charges for balloon flight. Whole assembly of constant-altitude balloons set up at 0500. Fired charges at 0537 and 0552, then soon buzzed by plane

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to return. Receiver at plane did not work at all. Ground receiver worked for a short time but did not receive explosions. B-17 and most of personnel out to Roswell - recovered equipment some 25 mi east of Roswell. Out at 10 this morning, got TNT and went out to range. Fired shots 12 to 18 every hour. Last of bombing tests this week.

June 6 Fri. NYU personnel getting ready for flight tomorrow. Conference about noon, Hackman with radiosonde, Olsen and Godbee with receiver to Roswell - also Smith on theodolite. Regular equipment in plane. Edmundson and Reynolds to operate equipment at labs - receiver with GR8. Worked on adopting GR8 this pm and this evening. Fired some shots pm at site #4 but no transmitter for sonobuoy. This pm put McCurdy low frequency amplifier in circuit before GR8 and have plenty of signal.

June 7 Sat. Balloon flight off about 530. Dribbler? broken on takeoff. Balloon was to 60,000', broke left balloons then train came down somewhere in mountains. Recordings at north hanger, and at Roswell but plane did not receive. Shot at 6, 630, 7, 730, 8 and 830 at site #4. Plane out to find balloons but no luck. All NYU personnel and John Adden off on B-17 - Lewis, Gallagher. Went over to Alamogordo with Ireland, Minton, Olsen and Mears but no train today - making reservations for tomorrow.

June 8, Sun. Rancher, Sid West, found balloon train 25 mi south of High Rolls in mountains. Contacted him and made arrangements to recover equipment Monday. Got all recordings of balloon flights. Took Ireland, Mears, Winton, Olsen to Alamogordo to catch train this pm

June 9 Mon. Bill Godbee and Don Reynolds went out to Sid West's ranch south of High Rolls and brought back recovered balloons - clock, 2 radiosondes, sonobuoy and microphone and lower part of dribbler. Bill Edmundson cleaning up hanger and sorting out equipment of NYU. Worked today on balloon records (GR8) from north hanger. No definite signals obtained. Took inventory MRs.

June 10 Tues. Bill G, Bill E and Don worked on equipment, repairing GR8, T21 mikes, etc. Getting ready for rocket Thursday. Worked on GR8 recordings from Hagerman, Tests 3,4,5,6. No signals obtained. Worked on balloon tests from Roswell - no signals. V on Gila R tests 3,4,5,6, Eileen on V2 amplitudes.

June 11 Wed. Bill Godbee and I went out to Tularosa Range and located Site #5 for bombing, 24 mi N of Site #3 - roads bad. Laid out wire for shooting, Don and Bill E getting ready for rocket. Checked Rubicon records, all 3 sites.

June 12 Thurs. All rockets postponed until July 3 rocket of S.C.E.L. Bill E, Don, Bill G went down to El Paso and then SE along Rio Grande. Located listening site south of Clint, Texas and layed out wires and dug holes. Worked on bombing flights from Oakhurst.

June 13 Fri. Men off today. V worked on tests 3,4,5,6 Tularosa bombing. E on V-2 rocket amplitudes. I plotted T-X all sky waves and started reviewing March 11 and 17 records.

June 14 Sat. Bill E and family, Don R and family, V, E and I to Carlsbad.

June 15 Sun. Through Carlsbad Caverns and back to Alamogordo.

June 16 Mon. Men off today. Worked on eastern shore cruises, plotting T-X corrected to 68 kms & worked on apparent velocities and differences in azimuth.

June 17 Tues. Men left for Silver City and Febrero? near El Paso for bombing tests. Worked on Cruises.

June 18 Wed. Test 7 of Tularosa Bombing Program, Shots at 7, 930 and 1230. Men called in from field to check clocks. Weather poor - raining at all sites. E on V2 rockets, V Cruises.

June 19 Thurs. Test 8 of Tularosa bombing program, shots at 1600, 1830, 2100, 2400. Weather poor - rainy at Alamogordo.

June 20 Fri Finish of Test 8. Shots at 0000 and 0230, Sites 1,3,5. Men back today. Godbee, Reynolds at Silver City got all shots, Edmundson at El Paso got 1 possibly 2. Looked over all Fabens records today. E on weather data, rocket firings, V on Tests 3,4,7 and Flights.

June 21 Sat Worked on GR8 records from Fabens - calculated azimuth and elevation angles - Fabens recordings and some of Silver City.

June 22 Sun. On trip with V & E - San Cruzes, Hot Springs, Carizzo

Week of Jan 23-28 Alamogordo Air Base. Men worked on equipment for sound ranging Monday and made arrangements for off base transportation, had to get some from Base Motor Pool; Bill G, Don R left am for Gila Valley and Bill E went to Fabens. Tests 9, 10 Wednesday 25 and Thurs, Fri 26-27. Test 9: 7-10-13-16-18 Sites 1-3-5-3-1. Went out with Sgt Rand. Contacted by telephone Wed night and Thursday. Shot 10 Thurs, Fri at 18-21-00-03-05. Out with Sgt Rand again. Men in Fri pm. Good results from west, but poor or nothing from Fabers. Looked over some of Fabens records Sat. V worked on Tests 7-8 getting all data, including amplitudes, then worked on Flights 1-27. Got met data for all flights up to 18 kms except Oct ones. Found one whole minute error in timing on 24A flight which now checks with others

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in March. E on new weather calculations 20 Feb. Found adding wind directly to velocity from temp gives accurate enough results. Changed 20 Feb rocket and plotted up altitudes against signal strength - shows nothing significant & started on 1 April rocket. Have all 4 station azimuths about finished. Phil Chantz and Wiggett in by train Friday night. They brought in records of Flights 28, 29 and 30 on east coast - 1 of May and 2 in June. Went over records Saturday and identified signals of 28 -29. Balloon expedition personnel arrived Saturday evening - Peoples, Trakowski, Mears, Ireland, Olsen, Moulton, Alden from AMS and Moore, Schneider, Hackman, Smith, Hazzard, 2 others and a Lt Smith from Navy NYU. 29 June (Sun) NYU personnel and some of Watson Lab men working today with equipment in north hanger. Went to Ruidoso with Mears, Trakowski, Godbee, V & E. Week of 30 June - 5 July '47 Alamogordo. Vivian worked on Tests 9 and 10, finishing all upward data on GR3 recordings. Eileen worked on 1 April rocket, getting signal strengths vs altitude (corrected for weather data) and started on time calculations to get time of signal for correlation purposes. Appears likely that strength of signal is dependent on station factors rather than anything about rocket.

Balloon tests? 7, 8, 9, and 10 off this week. Test 7, slated for 1 July postponed until 2 July as equipment was not ready. 100 tanks Helium obtained from Amarillo Monday evening. Also radiosonde receivers set up by NYU personnel Monday but were not operable. Test 7 at dawn on July 2 with pibal 1 hr first following with theodolite. Winds were very light and balloons up between A air base and mountains most of time. Included cluster of met balloons. Followed by C-54 for several hours & finally landed in mountains near road to Cloudcroft. Before gear could be recovered, most of it had been stolen. Stations operating at north hanger, Cloudcroft and Roswell. Shots made unfortunately at Site #4 and picked up good from north hanger and from Cloudcroft for awhile. Nothing from Roswell. On Thursday morning 3 July, a cluster of GM plastic balloons sent up for V2 recording but V2 was not fired. No shots fired. Balloons up for some time. No recordings from Roswell as pibal showed no W winds. Balloons picked up by radar WL and hunted by Manjak C-45. Located on Tularosa Range by air. Out pm with several NYU by weapon carrier but we never located it. Rocket postponed until 730 Thursday night but at last minute before balloon went up, V2 was called off on account of accident at White Sands. Sent up cluster balloons with dummy load. Balloon flight #10 at dawn on July 5th. Had gone out in C-45 again with Moser and Dubell to hunt for balloon from Flight 8 but not since? we found them. C-54 went to El Paso and picked up single Smith plastic balloon and GM cluster plastic balloons. Flight 10 with single plastic followed from Alamogordo and Cloudcroft. Shot 8 shots from Site 4. Picked up most and lost signal at 845. Balloons ? more than 6 hrs although time clock had been put in to bring them down after 5 hrs. ? were picked up by ? C-45 as first flight out was delayed. Had special balloon at 7 with explosive charge which went off at 35,000 ft and at 745 but by that time the receiver had lost the signal. Followed by radiosonde series until after 1300. Cloudcroft off at 8 and doubtful about signals received.

Peoples and Trakowski up 4 July with Dr. O'Day of CFS to Alamo Tower ---- ? Solar Observatory the SCEL station. Schneider up with O'Day to check use as NYU station.

Alamogordo crew helped get helium, and did ground shooting of 2 July. Out July 3 at Dona and Launching sites at 2 pm and later at night.

Finished identification on Flights 28, 29 and 30 on east coast and made plans for Bermuda flights.

Unable to leave for home on 3 July as was planned and wired Donnie first part of week if he could change his schedule and go home following week. Got wire back that he had decided not to make the trip.

July 6 (Sun) Worked at office on flights and rocket data. Started on plans for speech 17 July meeting NYU - Getting ready for Flight 11. Plans are to put up Smith balloon with GM ? plastics + simple met balloon sonobuoy + balloon bomb.

July 7 (Mon) Alamogordo. Balloon Flight 11 A off at 0503. Big plastic with small auxiliary plastics. WL gear - radiosonde and dribbler. Followed with theodolite and receiver until about 11. Picked up on radiosonde receiver at Roswell and followed then. Finally came down (at 10,000' cap should have punctured plastic) near Hwy 70 between Roswell and Tularosa. Second balloon - met balloons with radio sonde up about 630. Third balloon with 2 1/2 # stick TNT and caps set by pressure element to fire at 35,000' up at 0630. Surface bombing at Site 4 from 545 to 845 at 15 min intervals. Ireland followed main receiver only about 3/4 hr but followed radio sonde about 3 hrs. 35,000' explosion off about 655.

Vivian got all instructions for completing work on Flights 1-30 and picked all records and filed. Sent off TWX re Bermuda Flight and wrote up memo on it. Worked with Eileen on

April 1 rocket plotting H-SS, H-T, SS-T.

July 8(Tues) Alamogordo. C-54 off about 1030 with 23 people - all NYU, WL including J, E, Godbee. It Thompson, Edmondson, Reynolds and myself left. Wrote up report on East Coast Flights for Peoples.

July 9(Wed) Alamogordo. Worked today on balloon flights. Studied WL records of them briefly and wrote a memorandum to Peoples about results. Left in car this PM late. Flat tire between Roswell and Tularosa and stayed there.

July 10 Thurs. Changed tire and went into Roswell. Bought new tire. On to El Reno, Okla today. Stopped in cafe in Hereford, Texas and met Dannie Harns from UGC. Went up to office and saw Bob Cowder?, PC and Gene Conant, supervisor.

July 11 Fri. From El Rosa to Cherokee. Got note at Cherokee that Jimmie was at Tonkawa and went over there. Stayed tonight with J & family.

July 12 Sat. Jim, Pat, Vanessa along with me on way home. Got to Doolittle, Ark tonight.

July 13 Sun. to cabins in Ohio just out of Springfield.

July 14 Mon. To cabins near Geneva, N.Y.

July 15 Tues. Stopped at Syracuse. Got home about 230. Marion & her baby there.

July 16, 17, 18 At home. Drew in 4 or 5 loads of hay but land very wet and rains intermittently.

July 19 Sat. Marion and I left in Chrysler for Woods Hole to see Dorothy & family. Through Albany, Springfield, Providence. 463 miles 12 hours. Doc Ewing on Atlantic cruise. Worzel working on gravity at sea. Saw Geo Woollard and the Ryders. Woollard after Guggenheim fellowship for next year - positions at WHOI and Princeton are ? very satisfactory.

July 20 Sun. Saw men working with Worzel at WHOI, Pollak, went over to Vine's new house, saw Kit and Bump at their house, then out to Ewings, saw Midge & children, Anne and Mikey.

July 21 Mon. Went down to WHOI, saw Pollak, Bumpus, Worthington. Up 3rd floor and saw Emmons of NYU, who is finishing up some research work there under Ray Montgomery. Talked with Columbus Iselin for short time. Saw Gil Oakley. Marion & I left about 11 am. Went through Providence, Hartford. Crossed river at Hudson. Met rain last part of trip, not home until 130. Jim & family spent weekend with Steve and Esther in Syracuse.

July 22, 23, 24 At home. Drew in a little more hay from lot in front of barn but still raining quite often. Jimmie & family took Thursday PM train to Syracuse to catch tomorrow's plane to Wichita, Kansas.

July 25, 26, 27 At home. Steve and Esther came up Sat night. Marion and I went to Watertown to pick them up at bus station at midnight. They left again Sun pm on bus from Canton. Chas Crary up from Canton Sunday PM

July 28, 29, 30, 31, Aug 1. At home. Chrysler to Canton, change plugs, reline wheels - Rained hard first part of week then clear. Got in lots in back of barn, north of road and front of house.

Aug 2 Sat. Marion - Bunny and I left 1230 PM, arrived Marcellus about 5 PM. Ate dinner with Steve and Esther, left Marcellus 730 PM. Through Binghamton, Scranton, Stroudsburg, Easton. Arrived in Newtown about 245 am.

Aug 3 Sun. In Newton with Flaggs for dinner. Left Newtown about 5 PM. Arrived Jersey Coast. Got room on Hwy 35 near White Bite Shop.

Aug 4 Mon. Up to Oakhurst. Went over developments to date with Jim Peoples. Out to lunch with Lt Ball. This PM Chantz and I surveyed to Sonobuoy site.

Aug 5 Tues. Oakhurst. Worked on Aberdeen results - 2 failures - 1 direct wave. - Worked on Bermuda run # 2 - Oakhurst and started Bermuda #2 C.M.C.H., Peoples on vacation starting today.

Aug 6, 7, 8 Wed, Thurs, Fri. Oakhurst. Worked on Cruises 1 -28 with Vivian and Epstein. Checked over all recordings of Bermuda #2, Flight 32. Got sonobuoy survey calculated and worked up results of Flight 25 B which depended on sonobuoy signal. Started Epstein on weather data which Wiggett is working on. Wrote letter to Emmons with remaining work to be done there. Conference Wed pm with Clowry, Carroll, Dubell, Bernhoff of Olmsted regarding Bermuda and Alamogordo plans. Mr Mears put up balloons with equipment on here at Oakhurst. Reynolds and Edmondson in and working around lab. Worked some with Eileen on rockets.

Aug 9, 10 Asbury Park

Aug 11, 12, 13, 14, 15, 16 Oakhurst. Wrote memo regarding Alaskan work and had copies typed up. Worked most of week on rockets. Plotted altitude against time of origin for April 1, 8 rockets but did not get identical graphs. Tried to vary distance to obtain similar curves but this was not possible. Made plots of time vs SS and altitude vs SS in effort to correlate signals between stations. Correlated fairly good on 1 April but poor on 8 April.